DS 105: DECISION ANALYTICS

In Workflow

1. CBA College Committee Chair (jlee@csus.edu)
2. CBA Dean (mikhaili@csus.edu)
3. Academic Services (catalog@csus.edu)
4. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
5. Dean of Undergraduate (james.german@csus.edu; renee.leonard@csus.edu)
6. Dean of Graduate (cnewsome@skymail.csus.edu)
7. Catalog Editor (catalog@csus.edu)
8. Registrar's Office (wlindsey@csus.edu)
9. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Wed, 13 Apr 2022 18:39:01 GMT
   Min Li (limin): Rollback to Initiator
2. Sun, 29 May 2022 22:15:17 GMT
   Jai Joon Lee (jlee): Approved for CBA College Committee Chair
3. Mon, 30 May 2022 19:18:36 GMT
   Andrey Mikhailitchenko (mikhaili): Approved for CBA Dean

New Course Proposal

Date Submitted: Wed, 25 May 2022 20:03:30 GMT

Viewing: DS 105 : Decision Analytics

Last edit: Wed, 15 Jun 2022 16:44:44 GMT

Changes proposed by: Min Li (101017159)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Min Li	limin@csus.edu	916-278-7132

Catalog Title:
Decision Analytics

Class Schedule Title:
Decision Analytics

Academic Group: (College)
CBA - Business

Academic Organization: (Department)
Information Systems and Business Analytics

Will this course be offered through the College of Continuing Education (CCE)?
No

Catalog Year Effective:
Fall 2022 (2022/2023 Catalog)

Subject Area: (prefix)
DS - Decision Sciences

Catalog Number: (course number)
105

Course ID: (For administrative use only.)
TBD

Units:
3

Is the primary purpose of this change to update the term typically offered or the enforcement of requisites at registration?
No

In what term(s) will this course typically be offered?
Fall, Spring

Does this course require a room for its final exam?
Yes, final exam requires a room

This course complies with the credit hour policy:
Yes

Justification for course proposal:
The Business Analytics concentration contains only three required courses, much lower than other concentrations. This course is proposed to be an additional elective course. This proposed course is a critical component of the business analytics concentration, required by similar programs in other business schools.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)
Introduces students to decision models for the solution and analysis of business problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes.

Are one or more field trips required with this course?
No

Fee Course?
No

Is this course designated as Service Learning?
No

Is this course designated as Curricular Community Engaged Learning?
No

Does this course require safety training?
No

Does this course require personal protective equipment (PPE)?
No

Does this course have prerequisites?
Yes

Prerequisite:
MATH 24, STAT 1

Prerequisites Enforced at Registration?
Yes

Does this course have corequisites?
No

Graded:
Letter

Approval required for enrollment?
No Approval Required

Course Component(s) and Classification(s):
Lecture

Lecture Classification
CS#02 - Lecture/Discussion (K-factor=1WTU per unit)

Lecture Units

3

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes and Assessment Strategies:

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	**Assessment Strategies**
1	Explain what decision models are and how it may be used as an aid to decision making.	Projects Quizzes
2	Formulate mathematical models of applied organizational decision-making problems.	Projects Exams Homework Assignments
3	Analyze business problems quantitatively using software tools.	Projects Homework Assignments

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted.

Students will be assessed on the curriculum in the class using a variety of methods, including:
Projects (ELO 1, 2, 3)
Exams (ELO 2)
Quizzes (ELO 1)
Homework Assignments (ELO 2, 3)

Attach a list of the required/recommended course readings and activities:

SYLLABUS_DS105.docx

For whom is this course being developed?

Majors in the Dept

Is this course required in a degree program (major, minor, graduate degree, certificate?)

No

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Undergraduate Learning Goals:

Competence in the disciplines
Intellectual and practical skills

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?
No

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?
No

Reviewer Comments:
Min Li (limin) (Wed, 13 Apr 2022 18:39:01 GMT): Rollback: update
Aravind Yuvraj (ayuvraj) (Wed, 15 Jun 2022 16:40:01 GMT): Edited to integrate new ELO and Assessment Strategies fields.

Key: 14651